

## Regeln

You have 25 minutes to submit answers. There are 11 questions and a correct answer is always a positive real number i.e. question  $i$  has answer  $\theta_i \in \mathbb{R}_+$  for  $i = 1, 2, \dots, 11$ . Submissions are made in the form of an interval:

$$[\text{Min}_i, \text{Max}_i]$$

With  $0 < \text{Min}_i \leq \text{Max}_i < \infty$ . Note that both endpoints are included.

Each team has 16 guesses hence multiple submissions for questions is possible although the score, and hence the correctness of the guess, will always be based on the **latest** submission to the question. Submissions can be made throughout the quiz. The team's score is given by the formula:

$$\left(10 + \sum_{i: \text{Min}_i \leq \theta_i \leq \text{Max}_i} \left\lfloor \frac{\text{Max}_i}{\text{Min}_i} \right\rfloor\right) \cdot 2^{11 - \#\text{correct guesses}}$$

Where  $\lfloor \cdot \rfloor$  is the floor function.

Hence, at the beginning of the quiz all teams have a score of  $(10 + 0) \cdot 2^{11-0} = 20480$  points.

When the time is up, the team with the **lowest** score wins.

When submitting an interval it must clearly state:

- Team
- Question
- Interval.

Using scientific notation is allowed but must follow the conventions of R e.g.:

100 = 1e2

93.000 = 93e3

1.010.000.000 = 101e7

etc.

After submission the team (and everybody else) will be able to see whether the guess is correct or not and if so the value of the answer in the sum i.e.  $\lfloor \text{Max}_i / \text{Min}_i \rfloor$  as well as the updated total score.

## Fragen

1. Length in meters of the shortest land-border of Russia.
2. Number of digits in the number  $2^{123}$
3. Highest FIFA-ranking of the Faroe Islands national football team
4. Height in meters of highest point in the country (sovereign state) with the lowest highest point in South America
5. Number of aired episodes of *Snurre Snups søndagsklub*.
6. Number of days that Robert Mugabe acted as president of Zimbabwe.
7. Number of Beatles songs which have Ringo Starr credited as "sole composer".
8. Number of days sailing during Christoffer Columbus' first voyage (1492) before reaching present day Bahamas.
9. Number of countries that the Equator passes through the *land* of.
10. At what age (in years) did Jean-Michel Basquiat die?
11. Width of the Vietnamese Demilitarized Zone, at its thinnest point in meters.